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PATENT ABSTRACTS OF JAPAN

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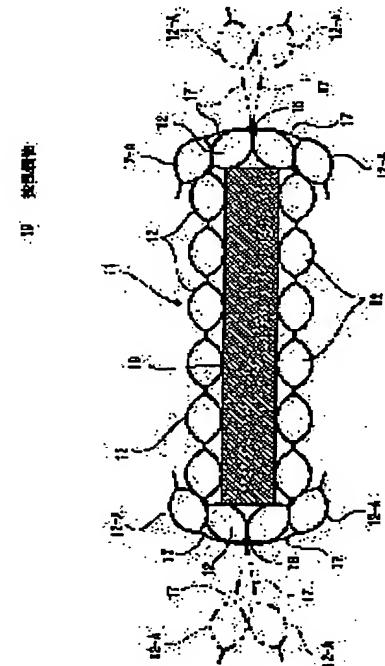
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(54) CUSHIONING PACKAGING BAG

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a cushioning packaging bag of high cushioning protective effect.

SOLUTION: The cushioning packaging bag has a large number of demarcated long sealed bags 12 continuous in the transverse direction, the sealed bags 12 filled with air are formed of a cushioning material of a synthetic resin film sheet constituted so as to independently keep the sealed condition, and the sealed bags 12 are folded in the longitudinal direction so as to form the cushioning material in a cylindrical shape. An insertion port of an article 19 to be packaged is formed between ends of the cushioning material in the folding direction, by welding a space between the sealed bags 12-A located on both ends of the large number of arranged sealed bags 12 to the sealed bags 12 located on the inner side of the sealed bags 12-A located on both ends, so as to close openings formed in the sealed bags 12-A located on both ends of a large number of arranged sealed bags 12. The sealed bag parts 12-A located on both ends are connected to each other via a flat sheet-like connection part 17 from the welded part 16, and returned outwardly.



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CLAIMS

[Claim(s)]

[Claim 1] While having the seal bag part of the shape of a long picture by which a large number were divided succeeding the longitudinal direction and being able to fill up this seal bag part with air The seal bag part with which air was filled up uses the shock absorbing material which consists of a sheet made from a synthetic-resin film constituted so that a seal condition might be held independently, respectively. A seal bag part is bent in the die-length direction so that this shock absorbing material may become cylindrical. Opening formed in the part of the seal bag part located in the ends of the seal bag part located in a line by joining [many] Insertion opening of packaging goods-ed is formed between the edges of the shock absorbing material in the bending direction by joining between the seal bag part located in the ends of the seal bag part located in a line in order to close, and the seal bag parts located inside [which is located in ends] a seal bag part by the welding. [many] The seal bag part located in ends is a buffer package bag characterized by constituting so that a seal bag part may be filled up with air, where it is connected through the flat sheet-like relation section from said welding and the seal bag part outside said welding and the sheet-like relation section in each edge are turned up outside.

[Claim 2] The sheet-like relation section is a buffer package bag according to claim 1 characterized by being the sheet-like relation section on which a check valve does not exist and air does not collect.

[Claim 3] The sheet-like relation section is a buffer package bag according to claim 1 characterized by being constituted so that it may have the same composition as a seal bag part and air may not go into this sheet-like relation section.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the buffer package bag made of synthetic resin which wraps packaging goods-ed.

[0002]

[Description of the Prior Art] While being able to fill up with air conventionally all the seal bag parts by which a large number were divided succeeding the longitudinal direction from one place Even if a check valve is prepared in each seal bag part so that it may escape from a seal bag part and may not come out, and which seal bag part damages the air with which the seal bag part was filled up, the shock absorbing material constituted considering the sheet made from a synthetic-resin film as an ingredient so that runoff of air might consist only of the damaged seal bag part is known. And the buffer package bag made using such shock absorbing material is known.

[0003] The condition of having wrapped packaging goods-ed in drawing 16 – drawing 17 with this buffer package bag and this buffer package bag is shown. While the buffer package bag 1 is equipped with the seal bag part 2 of the same magnitude of the shape of a long picture by which the longitudinal direction was followed and a large number were divided and being able to fill up all this seal bag part 2 with air from one place A check valve (not shown) is prepared in each seal bag part 2 so that the air with which each seal bag part 2 was filled up escapes from it and may not come out of the seal bag part 2. Even if which seal bag part 2 is damaged, runoff of air is made with the shock absorbing material constituted considering the sheet made from a synthetic-resin film as an ingredient so that it might consist only of the damaged seal bag part 2.

[0004] As for the shock absorbing material used as the ingredient of said buffer package bag 1, many long picture-like seal bag parts 2 are located in a line in more detail. The seal bag part 2 is bent in the die-length direction so that shock absorbing material may become cylindrical. The buffer package bag 1 with which the insertion opening 3 of packaging goods-ed was formed between the edges of the shock absorbing material in the bending direction is made by closing opening formed in the part of the seal bag part 2 located in the ends of the seal bag part 2 located in a line by joining. [many] Much 4 is a welding in the seal bag part 2 located in the ends of the seal bag part 2 located in a line.

[0005] Thus, the packaging goods 5-ed are protected by the seal bag part 2 of a large number with which the packaging goods 5-ed were inserted in the made buffer package bag 1 from said insertion opening 3, and air was filled up.

[0006] However, the buffer package bag 1 of the above-mentioned configuration has inadequate protection of the corner 6 of four ridgelines where the seal bag part 2 of what can carry out buffer protection of the packaging goods 5-ed contained inside in respect of six meets in the die-length direction. That is, although the seal bag part 2 contacted two fields which sandwich the corner 6 of a ridgeline, the clearance was generated between the seal bag part 2 which adjoins each other in the corner 6 of a ridgeline, and 2, and it had the problem that the buffer protective effect of the corner 6 of a ridgeline was inferior to other parts.

[0007]

[Problem(s) to be Solved by the Invention] This invention solves such a technical problem and it aims at offering the high buffer package bag of a buffer protective effect.

[0008]

[Means for Solving the Problem] In order to solve this technical problem, while this invention is equipped with the seal bag part of the shape of a long picture by which the longitudinal direction was followed and a large number were divided and being able to fill up this seal bag part with air. The seal bag part with which air was filled up uses the shock absorbing material which consists of a sheet made from a synthetic-resin film constituted so that a seal condition might be held independently, respectively. A seal bag part is bent in the die-length direction so that this shock absorbing material may become cylindrical. Opening formed in the part of the seal bag part located in the ends of the seal bag part located in a line by joining [many] Insertion opening of packaging goods-ed is formed between the edges of the shock absorbing material in the bending direction by joining between the seal bag part located in the ends of the seal bag part located in a line in order to close, and the seal bag parts located inside [which is located in ends] a seal bag part by the welding. [many] The seal bag part located in ends is connected through the flat sheet-like relation section from said welding, and let it be a summary to have constituted so that a seal bag part might be filled up with air, where the seal bag part outside a welding and the sheet-like relation section in each edge are turned up outside. Moreover, the sheet-like relation section makes it a summary for this invention to be the sheet-like relation section on which a check valve does not exist and air does not collect. Furthermore, let it be a summary to constitute this invention so that the sheet-like relation section may have the same composition as a seal bag part and air may not go into this sheet-like relation section.

[0009] By this configuration's constituting so that one thru/or two or more seal bag parts may be located outside said welding, and filling up a seal bag part with air, where the seal bag part outside a welding and the sheet-like relation section are turned up outside. The seal bag part located outside a welding can lose the clearance between the adjacent seal bag parts which form the corner of the bonnet from an outside, and a ridgeline for the corner of four ridgelines, can reinforce the corner of a ridgeline, and can offer the high buffer package bag of a buffer protective effect.

[0010]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained based on a drawing.

(Gestalt 1 of operation) The gestalt 1 of operation shown in drawing 1 – drawing 6 is explained first. It is the shock absorbing material with which 10 becomes the base of the buffer package bag of the gestalt of this operation in drawing 1. While this shock absorbing material 10 heats and welds periphery section 10a of the web material made from a synthetic-resin film of two sheets. It has the seal bag part 12 of the shape of a long picture by which the longitudinal direction was followed by partition welding 10b prepared in the longitudinal direction at fixed spacing, and a large number were divided. While being able to fill up this seal bag part 12 with air from air suction port 13a of the end of the air injection way 13 currently formed in the die-length direction end side of the seal bag part 12. A check valve 14 (detail explanation is omitted) is formed in the air injection way 13 side of the die-length direction end of each seal bag part 12 so that the air with which the seal bag part 12 was filled up may escape from the seal bag part 12 and it may not come out of it. Even if which seal bag part 12 damages after air restoration, runoff of air is constituted so that it may consist only of the damaged seal bag part 12. Although this shock absorbing material 10 is bent and the buffer package bag 11 (refer to below drawing 2) is constituted by carrying out heating welding, it bends in the die-length direction proper place of each seal bag part 12, and partial welding 18a of business is formed in order to make it correspond to the thickness of a request of that buffer package bag 11, and a configuration. Moreover, partial welding 18b for bending which inserts the packaging goods 19-ed mentioned later is formed. Furthermore, the sheet-like relation section 17 to which air does not collect between the seal bag part 12 located in ends and the seal bag part 12 located in that one inside is made to be placed between shock absorbing material 10, and the perimeter of this sheet-like

relation section 17 is joining the web materials made from a synthetic-resin film of two sheets with a welding 20, in order to make it air not enter between said web materials made from a synthetic-resin film of two sheets. In addition, it has become [whether the width of face of this sheet-like relation section 17 is almost the same to the width of face of the seal bag part 12, and]. Moreover, the check valve 14 which is prepared in each seal bag part 12 is not formed in the sheet-like relation section 17.

[0011] The buffer package bag 11 as shown in drawing 2 using the shock absorbing material 10 constituted as mentioned above is constituted. Namely, the seal bag part 12 is bent in the die-length direction so that shock absorbing material 10 may become cylindrical. To the ends of the seal bag part 12 located in a line [many] By the welding 16 from the tubed inside bent along with one flank of the sheet-like relation section 17 between said sheet-like relation section 17 and the seal bag part 12 located inside [which is located in ends / one] the seal bag part 12 in order to close opening 11a formed in the part of the located seal bag part 12 It is made to join. One more seal bag part 12 will exist in the outside of the part closed by the welding 16 in each edge through the sheet-like relation section 17 by this. Moreover, the buffer package bag 11 with which the insertion opening 15 of the packaging goods 19-ed was formed between the edges of the shock absorbing material 10 in the bending direction will be constituted.

[0012] By the way, the welding 16 to which between the seal bag part 12 located in the ends of the seal bag part 12 located in a line as mentioned above and the seal bag parts 12 located in the one inside is joined is formed so that said air injection way 13 may be avoided. [many]

[0013] And in the flat condition before being filled up with air from air suction port 13a and blowing up the buffer package bag 11, as shown in drawing 3 , it turns up so that the outside of the seal bag part 12 located in an outside [welding / 16 / said], i.e., the inside of the seal bag part 12 located in ends in the seal bag part 12 by the side of an edge and the sheet-like relation section 17, may be wrapped, and air is filled up with this condition from air suction port 13a in each seal bag part 12. In addition, when the seal bag part 12 is bent in the die-length direction so that shock absorbing material 10 may become cylindrical, the buffer package bag 11 serves as a rectangle mostly in a side-face configuration, and partial welding 18a for bending mentioned above in the die-length direction proper place of each seal bag part 12 so that the depth of the buffer package bag 11 which moreover fitted the thickness of the packaging goods 19-ed might be obtained is formed.

[0014] By showing the buffer package bag 11 which drawing 4 was filled up with air, and the flat-surface configuration swelled, and became rectangle-like mostly, and bending this buffer package bag 11, as shown in drawing 5 , and bending it outside by partial welding 18b of business, said insertion opening 15 is opened, the packaging goods 19-ed are inserted, and it will be in the completion condition of a package by closing the insertion opening 15 in the original condition. The packaging goods 19-ed will be protected by the seal bag part 12 of a large number with which air was filled up in this completion condition of a package.

[0015]

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TECHNICAL PROBLEM

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